

## MTH 4-17b

## Homework 3

## Bronze Level

### Outcome 1 - Similar Shapes (small → large)

The following shapes are mathematically similar. Calculate the length of the missing sides...

**1**

9 cm, 5 cm, 72 cm, x cm

**2**

8 cm, 5 cm, x cm, 30 cm

**3**

6 cm, 4 cm, x cm, 12 cm

**4**

36 cm, x cm, 9 cm, 7 cm

### Outcome 2 - Similar Areas

The following objects are mathematically similar. Calculate the missing areas...

**1**

Area = 432 m<sup>2</sup>, 24 m, 36 m, Area = ?

**2**

Area = 4000 mm<sup>2</sup>, 50 mm, 70 mm, Area = ?

### Outcome 3 - Similar Volumes

The following objects are mathematically similar. Calculate the missing volumes...

**1**

Volume = 300 mm<sup>3</sup>, 50 mm, 80 mm, Volume = ?

**2**

Volume = 270 cm<sup>3</sup>, 20 cm, 30 cm, Volume = ?